

Form PTO-1449  
(REV. 8-83)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

015685.P024

SERIAL NO.

09/336,933

## INFORMATION DISCLOSURE CITATION

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APPLICANT

Mark C. Leifer

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>13</i>	3,704,465	11/28/72	Masak et al.			
	3,774,209	11/20/73	Fleming et al.			
	3,798,645	03/19/74	Baurle et al.			
	3,852,749	12/03/74	Kohler			
	3,946,385	03/23/76	Ewen			
	4,005,379	01/25/77	Lerner			
	4,035,746	07/12/77	Covington Jr.			
	4,085,319	04/18/78	Deitz et al.			
	4,128,740	12/05/78	Graziano			
	4,263,568	04/21/81	Nemit			
	4,316,191	02/16/82	Sawatari et al.			

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## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO
<i>11</i> 2 237 706 A	5/8/91	United Kingdom			<input checked="" type="checkbox"/>	
<i>1</i> 2 295 524 A	5/29/96	United Kingdom			<input checked="" type="checkbox"/>	
<i>1</i> 2 313 261 A	11/19/97	United Kingdom			<input checked="" type="checkbox"/>	

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

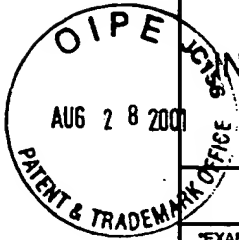
<i>13</i>	Acampora et al., "A New Adaptive MAC Layer Protocol for Wireless ATM Networks in Harsh Fading and Interference Environments", 1997 IEEE, pp. 410-415.
<i>1</i>	Agee, "Blind Separation and Capture of Communication Signals Using A Multitarget Constant Modulus Beamformer", 10/7/89 Proc. IEEE Military Communications Conference, Vol. 2, pp. 1-12.
<i>1</i>	Aschied et al., "An All Digital Receiver Architecture for Bandwidth Efficient Transmission at High Data Rates", 1989, IEEE Transactions on Communications, Vol. 37, No. 8, pp. 804-813.

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<i>JK</i>	<b>4,375,622</b>	<b>03/01/83</b>	<b>Hollingsworth et al.</b>			
	<b>4,434,505</b>	<b>02/28/84</b>	<b>Gutleber</b>			
	<b>4,475,010</b>	<b>10/02/84</b>	<b>Huensch et al.</b>			
	<b>4,626,859</b>	<b>12/02/86</b>	<b>Stansfield</b>			
	<b>4,639,732</b>	<b>01/27/87</b>	<b>Acoraci et al.</b>			
	<b>4,639,914</b>	<b>01/27/87</b>	<b>Winters</b>			
	<b>4,658,096</b>	<b>04/14/87</b>	<b>West, Jr. et al.</b>			
	<b>4,737,794</b>	<b>04/12/88</b>	<b>Jones</b>			
	<b>4,737,975</b>	<b>04/12/88</b>	<b>Shafer</b>			
	<b>4,742,356</b>	<b>05/03/88</b>	<b>Kuipers</b>			
	<b>4,750,147</b>	<b>06/07/88</b>	<b>Roy, III et al.</b>			

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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<i>JK</i> <b>0 639 035 A1</b>	<b>2/15/95</b>	<b>EPO</b>			<b>X</b>	
<i>JK</i> <b>0 713 261 A1</b>	<b>5/22/96</b>	<b>EPO</b>			<b>X</b>	
<i>JK</i> <b>0 777 400 A2</b>	<b>6/4/97</b>	<b>EPO</b>			<b>X</b>	

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

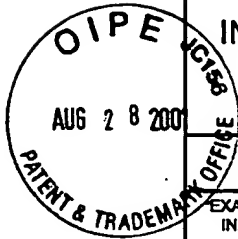
<i>JK</i>	<b>Franks, "Synchronization Subsystems: Analysis and Design", 1981, Digital Communications Satellite/Earth Station Engineering, pp. 294-335.</b>
<i>L</i>	<b>Friedlander, "Direction Finding Using an Interpolated Array", 4/3/90, International Conference on Acoustics, Speech, and Signal Processing, Vol. 5, pp. 2951-2954.</b>
<i>L</i>	<b>Friedlander et al., "Direction Finding for Wideband Signals Using an Interpolated Array", 1991, IEEE Publication, pp. 583-587.</b>

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<i>10</i>	4,775,997	10/04/88	West Jr. et al.			
<i>1</i>	4,796,291	01/03/89	Makino			
<i>1</i>	4,827,395	05/02/89	Anders et al.			
<i>1</i>	4,829,554	05/09/89	Barnes et al.			
<i>1</i>	4,837,800	06/06/89	Freeburg et al.			
<i>1</i>	4,855,748	08/08/89	Brandao et al.			
<i>1</i>	4,910,794	03/20/90	Mahany			
<i>1</i>	4,922,517	05/01/90	West, Jr. et al.			
<i>1</i>	4,926,186	05/15/90	Kelly et al.			
<i>1</i>	4,940,963	07/10/90	Gutman et al.			
<i>1</i>	4,947,452	08/07/90	Hattori et al.			

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
<i>1</i> 95/34103	12/14/95	WO			<i>X</i>
<i>1</i> 98/01963	1/15/98	WO			<i>X</i>
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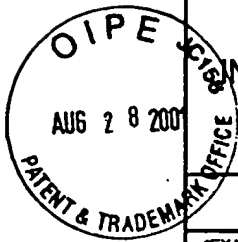
## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>10</i>	Ganz et al., "A Data-Derived Reference Signal Technique for Adaptive Arrays", IEEE Transactions on Communications, Vol. 37, No. 9, 9/1989, pp. 975-983.
<i>1</i>	Iltis et al., "A Digital DS Spread-Spectrum Receiver With Joint Channel and Doppler Shift Estimation", IEEE Transactions on Communications, Vol. 39, No. 8, 8/1991, pp. 1255-1267.
<i>1</i>	Krishnamurthy et al., "Polling Based Media Access Protocols For Use With Smart Adaptive Array Antennas", 1998 IEEE, pp. 337-344.

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R	4,955,082	09/04/90	Hattori et al.			
	4,965,732	10/23/90	Roy, III et al.			
	4,965,849	10/23/90	Kunihiro			
	4,965,850	10/23/90	Schloemer			
	4,972,151	11/20/90	Rosen			
	4,989,204	01/29/91	Shimizu et al.			
	5,041,833	08/20/91	Weinberg			
	5,052,799	10/01/91	Sasser et al.			
	5,093,924	03/03/92	Toshiyuki et al.			
	5,103,459	04/07/92	Gilhousen et al.			
	5,109,535	04/28/92	Kume et al.			

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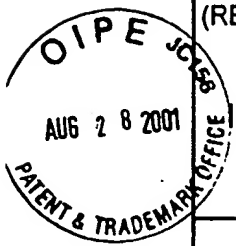
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98/17071	4/23/98	WO			X	
98/28864	7/2/98	WO			X	
98/33346	7/30/98	WO			X	

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

R	Lee et al., "Decision Directed Carrier Recovery - Chapter 16: Carrier Recovery", 1994 Digital Communications, 2nd Edition, Kluwer Academic Pub., pp. 725-736.
	Lee et al., "Decision Directed Carrier Recovery - Chapter 17: Timing Recovery", 1994 Digital Communications, 2nd Edition, Kluwer Academic Pub., pp. 737-764.
	Lundell et al., "Applications of the Constant Modulus Adaptive Beamformer to Constant and Non-Constant Modulus Signals", Proceedings, 1998 Asilomar Conference on Signals, Systems, and Computers (ACSSC-1998), pp. 432-436.
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N	5,124,697	06/23/92	Moore			
	5,142,253	08/25/92	Mallavarpu et al.			
	5,159,593	10/27/92	D'Amico et al.			
	5,255,210	10/19/93	Gardner et al.			
	5,260,968	11/09/93	Gardner et al.			
	5,262,789	11/16/93	Silverstein			
	5,274,844	12/28/93	Harrison et al.			
	5,283,540	02/01/94	Myer			
	5,299,148	03/29/94	Gardner et al.			
	5,335,249	08/02/94	Krueger et al.			
	5,345,596	09/06/94	Buchenhorn et al.			

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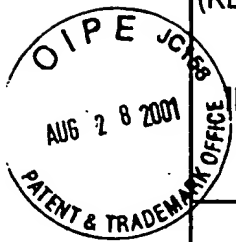
## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO
N 7-170548	4/7/95	Japan				X

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

N	Muhammed et al., "Direction of Arrival Estimation Using Antenna Arrays", 1996, The Bradley Dept. of Electrical Engineering, Mobile and Portable Radio Research Group, Section 3.8, pp. 64-71.
I	vander Veen et al., "A Constant Modulus Factorization Technique for Smart Antenna Applications in Mobile Communications", SPIE 1994 "Advanced Signal Processing Algorithms, Architectures, and Implementations V", Vol. 2296, pp. 230-241.
I	Talwar et al., "Recursive Algorithms for Estimating Multiple Co-Channel Digital Signals Received at an Antenna Array", Proc. Fifth Annual IEEE Dual Use Technologies and Applications Conference.
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N	12/21/99

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<i>12</i>	5,361,303	11/01/94	Eatwell			
	5,367,559	11/22/94	Kay et al.			
	5,379,320	01/03/95	Fernandes et al.			
	5,387,915	02/07/95	Moussa et al.			
	5,423,072	06/06/95	Iwashita et al.			
	5,430,760	07/04/95	Dent			
	5,440,281	08/08/95	Wey et al.			
	5,448,621	09/05/95	Knudsen			
	5,457,812	10/10/95	Siira et al.			
	5,465,399	11/07/95	Oberholtzer et al.			
	5,471,647	11/28/95	Gerlach et al.			

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<i>12</i>	Papadias et al., "A Space-Time Constant Modulus Algorithm for SDMA Systems", 1996, Proceedings, IEEE 46th Vehicular Technology Conference, pp. 86-90.
<i>1</i>	Talwar et al., "Blind Estimation of Multiple Co-Channel Digital Signals Arriving at an Antenna Array", 1993, Proc. 27th Asilomar Conference on Signals, Systems, and Computers, Vol. 1, pp. 349-342.
<i>1</i>	Rashid-Farrokhi et al., "Joint Power Control and Beamforming for Capacity Improvement in Wireless Networks With Antenna Array", 1996 IEEE GLOBECOM 1996, Vol. 1, pp. 555-559.

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12	5,475,864	12/12/95	Hamabe			
	5,475,868	12/12/95	Duque-Anton et al.			
	5,497,505	03/05/96	Koohgoli et al.			
	5,515,378	05/07/96	Roy, III et al.			
	5,530,449	06/25/96	Wachs et al.			
	5,530,917	06/25/96	Andersson et al.			
	5,532,706	07/02/96	Reinhardt et al.			
	5,537,438	06/16/96	Mourot et al.			
	5,543,801	08/06/96	Shawyer			
	5,546,090	08/13/96	Roy, III et al.			
	5,548,813	08/20/96	Charas et al.			

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18	Rashid-Farrokhi et al., "Transmit Beamforming for Cellular Communication Systems", Conference on Information Sciences and Systems, CISS-97; 3/1997, 4 pages.
1	Rashid-Farrokhi et al., "Downlink and Uplink Capacity Enhancement in Power Controlled Cellular Systems", Proceedings, 1997 IEEE 47th Vehicular Technology Conference, Vol. 2, 5/97, pp. 647-651.
1	Rashid-Farrokhi et al., "Downlink Power Control and Base Station Assignment", IEEE Communications Letters, Vol. 1, No.4, 07/97, pp. 102-104.

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<i>h</i>	5,553,074	09/03/96	Acampora			
	5,555,445	09/10/96	Booth			
	5,557,657	09/17/96	Barnett			
	5,566,209	10/15/96	Forssen et al.			
	5,576,717	11/19/96	Searle et al.			
	5,596,625	01/21/97	LeBlanc			
	5,603,082	02/11/97	Hamabe			
	5,603,089	02/11/97	Searle et al.			
	5,606,729	02/25/97	D'Amico et al.			

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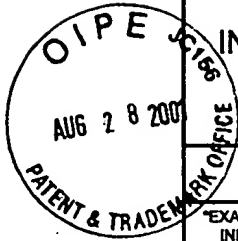
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<i>h</i>	Rashid-Farrokhi et al., "Transmit Diversity and Equalization for Power Controlled Wireless Networks", Conference Record 31st Asilomar Conference on Signals, Systems, and Computers, Vol. 1, 11/97, pp. 620-624.
<i>h</i>	Xu et al., "Throughput Multiplication of Wireless LANs for Multimedia Services: SDMA Protocol Design", 1994, IEEE, pp. 1326-1332.
<i>h</i>	Swidleyhurst et al., "Analysis of a Decision Directed Beamformer", IEEE Transactions on Signal Processing, Vol. 43, No. 12, 12/95, pp. 2920-2927.

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	5,615,409	03/25/97	Forssen et al.			
	5,621,752	04/15/97	Antonio et al.			
	5,625,885	04/29/97	Nakazawa et al.			
	5,638,375	06/10/97	Dettro et al.			
	5,649,287	07/15/97	Forssen et al.			
	5,673,291	09/30/97	Dent			
	5,678,188	10/14/97	Hisamura			
	5,684,836	11/04/97	Nagayasu et al.			
	5,689,219	11/18/97	Piirainen			
	5,689,502	11/18/97	Scott			

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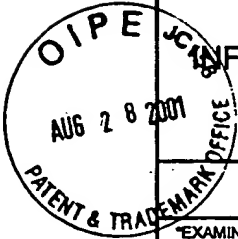
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	Zhang et al., "Performance of a Modified Polling Strategy for Broadband Wireless LANs in a Harsh Fading Environment", 1991, GLOBECOM 1991, pp. 1141-1146.
	US98/25364, PCT Search Report, 05/11/99.

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<i>W</i>	5,694,416	12/02/97	Johnson			
	5,697,066	12/09/97	Acampora			
	5,726,978	03/10/98	Frodigh et al.			
	5,732,076	03/24/98	Ketseoglou et al.			
	5,742,904	04/21/98	Pinder et al.			
	5,745,858	04/28/98	Sato et al.			
	5,748,676	05/05/98	Mahany			
	5,752,165	05/12/98	Hokkanen			
	5,774,461	06/30/98	Hyden et al.			
	5,809,009	09/15/98	Matsuoka et al.			
<i>W</i>	5,809,019	09/15/98	Ichihara et al.			

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
12	5,818,918	10/06/98	Fujii			
	5,819,182	10/06/98	Gardner et al.			
	5,825,762	10/20/98	Kamin, Jr. et al.			
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	5,845,212	12/01/98	Tanaka			
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	5,884,148	03/16/99	Bilgic et al.			
	5,887,038	03/23/99	Golden			
	5,909,470	06/01/99	Barratt et al.			
	5,914,946	06/22/99	Avidor et al.			

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


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	5,930,243	07/27/99	Parish et al.			
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	5,970,394	10/19/99	Arpee et al.			
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	6,018,317	01/25/00	Dogan et al.			
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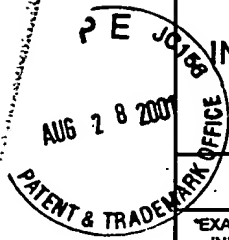
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	<b>6,061,553</b>	<b>05/09/00</b>	<b>Matsuoka et al.</b>			
	<b>6,064,865</b>	<b>05/16/00</b>	<b>Kuo et al.</b>			
	<b>6,067,324</b>	<b>05/23/00</b>	<b>Harrison</b>			
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	<b>6,154,661</b>	<b>11/28/00</b>	<b>Goldburg</b>			
	<b>6,185,412</b>	<b>02/06/01</b>	<b>Pentikainen et al.</b>			

**FOREIGN PATENT DOCUMENTS**

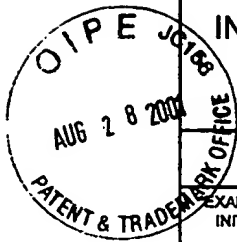
DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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